| SECOND SUBSTITUTE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Confirmation Number Filing Date First Named Inventor Art Unit Examiner Name U.S. PATENT DOCUMENTS Examiner Initials* Cite No. Document Number Publication Date Number Numb | 10/766,005 2005 January 29, 2004 Shinji TANAKA 2115 217-9 Thomas C. LEE J Q79562 or Applicant of Cited De | NOAM NORG |
|--|---|---------------|
| DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) LIS. PATENT DOCUMENTS Examiner Initials* No. Number Kind Code (if known) Number Numbe | 2005 January 29, 2004 Shinji TANAKA 2115 2779 Thomas C. LEE J Q79562 | NOAM WORE |
| STATEMENT BY APPLICANT STATEMENT BY APPLICANT First Named Inventor | Shinji TANAKA 2H5 シロテウ Thomas C. LEE く Q79562 | worm nort |
| Art Unit Examiner Name U.S. PATENT DOCUMENTS Examiner Cite No. Number Kind Code (if known) Name of Patentee | 2H5 フィア ウ Thomas C. LEE く Q79562 | NOAM WUZE |
| (use as many sheets as necessary) Examiner Name U.S. PATENT DOCUMENTS Examiner Cite No. Number Kind Code (if known) Number Kind Code (if known) Name of Patentee | Thomas C. LEE 4 Q79562 | NOTH NUR |
| Examiner Name U.S. PATENT DOCUMENTS Examiner Initials No. Number Kind Code (if known) Number Kind Code (if known) Number MM-DD-YYYY Name of Patentee | Q79562 | MOANN NUR |
| Examiner Initials* Cite No.1 Document Number Kind Code (if known) Publication Date MM-DD-YYYY Name of Patentee | | |
| Examiner Initials* Cite Number Document Number Cite Number Kind Code (if known) Number Numbe | e or Applicant of Cited De | |
| Examiner Initials* Cite No.1 Number Kind Code (if known) Publication Date MM-DD-YYYY Name of Patentee | e or Applicant of Cited De | |
| Examiner Initials* Cite No. Number Document Number Publication Date MM-DD-YYYY Name of Patentee Name | or Applicant of Cited De | |
| Initials* No. Number Kind Code* (if known) MM-DD-YYYY Name of Patentee | or Applicant of Cited De | |
| | | cument |
| 1 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| US | | - |
| US | | |
| US | | . |
| US | | |
| FOREIGN PATENT DOCUMENTS | | - |
| Foreign Patent Document Bublication Pate Name of | -f Detentes en | |
| Examiner Cite I Vial Cota MA DD VAVV Applicant | of Patentee or of Cited Document | Translation |
| No. Country Number (if known) Number Applicant o | orte Document | |
| JP 5-324235 A 12-07-1993 Ricoh Co. Ltd. | | W/English |
| J-554255 A 12-07-1395 RICOII CO. L.W. | | Abstract |
| | | |
| | <u></u> | |
| | | |
| | | _ |
| | | |
| | | |
| | | _ |
| | | |
| | | |
| , | | _ |
| | | |
| | | |
| NON PATENT LITERATURE DOCUMENTS | | |
| Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the article (when appropriate) article (when appropriate), title of the article (when appropriate) are the | f the item (book, magazine, | Translation |
| Initials* No. 1 journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/o | or commit where haniputer. | 1 |
| | | |
| | | 1 |
| | | |
| | | |
| | | |
| | | |
| Examiner Signature Adults were Date Considered | 8/18/1006 | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.

| | | | | | MODIFIED LIO/28/08 V & B (09-03 | |
|---------------------|-------------------|---------------|-----------|------------------------|---|--|
| | | | | Comp | olete if Known | |
| Substitute for Form | | DICCLOS | כו בען די | Application Number | Continuation of U.S. Appln. No. 09/445,076 10/766,005 | |
| | FORMATION | | | Confirmation Number | 9436 | |
| <u>ST</u> | ATEMENT B | Y APPLIC | ANT | Filing Date | January 29, 2004 | |
| | | | , | First Named Inventor | Shinji TANAKA | |
| | (use as many shee | is as necessa | אני | Art Unit | 2185 2179 | |
| | | | | Examiner Name | Unknown JORDANY NINEZ | |
| Sheet | 1 | Of | 1 | Attorney Docket Number | Q79562 | |

| U.S. PATENT DOCUMENTS | | | | | | | | | |
|------------------------------|------|--------------|-----------------------------------|--------------------------------|---|--|--|--|--|
| C | Cita | Document N | lumber | Dublication Date | | | | | |
| Examiner Cite Initials* No.1 | | Number | Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | | | |
| | 70 | US 6,239,800 | | 12/1997 | MAYHEW et al. | | | | |
| | 72 | US 5,935,228 | | 03/1997 | SHINOMURA | | | | |
| | 70 | US 4,682,158 | | 07/1987 | ITO et al. | | | | |
| | | US | | | | | | | |

| | | | I | FOREIGN PA | TENT DOCUM | ENTS | |
|-----------------------|------|------------------------------|---------------------|-----------------------------------|------------------|-----------------------------|--------------------------|
| Examiner Initials* | Cite | Cite Foreign Patent Document | | | Publication Date | Name of Patentee or | |
| | No.1 | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Translation ⁶ |
| | JV | JР | 6-48000 | | 02/22/1994 | | |
| | 1 | JP | 9-97235 | | 04/08/1997 | | |
| | | JР | 9-80987 | | 03/28/1997 | | |
| | | JP | 10-119394 | | 05/12/1998 | | |
| | | JP | 10-021030 | A | 01-23-1998 | NISHIJIMA TAKEO | |
| | U | JP | 08-123711 | A | 05-17-1996 | KATO HIROAKI ET AL. | |
| | 11 | ЛР | 08/147063 | A | 06-07-1996 | TSUDA KAZUHIKO ET AL. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | NON PATENT LITERATURE DOCUMENTS | | | | | | | | |
|------------------------------|---------------------------------|--|--|--|--|--|--|--|--|
| Examiner Cite Initials* No.1 | | luctude name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | | | | | | | |
| | Ju | International Search Report | | | | | | | |
| | イン | JAPANESE PATENT OFFICE COMMUNICATION DATED 09-25-2002 | | | | | | | |
| | 77 | Hewlett Packard Office in Color for Office Jet Pro 1170C Series, 01/01/1997, Hewlett Packard, p. 49 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| | (| | Α | | | |
|--------------------|---|----|-----------|-----------------|-------|-----|
| Examiner Signature | | MK | lang hung | Date Considered | 8/08/ | MUS |
| | | , | | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.

| Substitute for Form 1449 A & B/PTO | | | OIPE | Сотр | olete if Known |
|------------------------------------|-------------------|------|---------------|---------------------------|----------------------------|
| Sumulain for Lorm 1443 y cc. | DV 10 | | 101.67 | Application Number | 10/766,005 |
| INFORMA | TION DISCI | LOS | URE . | Confirmation Number | 2005 |
| STATEME | ENT BY APP | LIC | NAUS 2 5 2005 | Filing Date | January 29, 2004 |
| | | | | Williams Manuard Inventor | Shinji TANAKA |
| (use as m | anv sheets as nec | essa | v/ (1) | Art Unit | 2115 2179 |
| , | , | | W TRADEWARD | Examiner Name | Thomas C. LEE LORDANCE MUR |
| Sheet | 1 | of | 1 | Attorney Docket Number | Q79562 |

| | U.S. PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|-----------------------|------------|-----------------------------------|------------------|---|--|--|--|--|--|
| E | Cita | Document : | | Publication Date | | | | | | |
| Examiner Initials* | Cite No.1 | Number | Kind Code ² (if known) | MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | | | | |
| | | US | | | | | | | | |
| | | US | | | | | | | | |
| | | US | | | | | | | | |
| | | US | | | · | | | | | |
| | | US | | | | | | | | |
| | | US | A | | | | | | | |
| | | US | | | | | | | | |
| | | US | | | | | | | | |
| | | US | | | | | | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | | | |
|---------------|--------------------------|------------------------------|---------------------|-----------------------------------|------------------|-----------------------------|--------------------------|--|--|--|--|
| Examiner Cite | Cite | Fo | reign Patent Docum | nent | Publication Date | Name of Patentee or | Translation ⁶ | | | | |
| Initials* | No.1 | Country Code ³ | Number ⁴ | Kind Code ⁸ (if known) | MM-DD-YYYY | Applicant of Cited Document | | | | | |
| 20 | | JP | 5-324235 | A | 07-12-1993 | Ricoh Co. Ltd. | W/English Abstract | | | | |
| | | | | | • | <u></u> | | | | | |
| | | | | | , | | | | | | |
| | | | | | | | | | | | |
| | | <u> </u> | | | | <u> </u> | | | | | |
| | | | | | | | | | | | |
| | | | | | <u> </u> | | | | | | |
| | | | | | | | | | | | |
| | | | | L | | | | | | | |

| NON PATENT LITERATURE DOCUMENTS | | | | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|--|--|
| Examiner Cite Initials* No.1 | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| | A A | | |
|--------------------|------------|-----------------|-----------|
| Examiner Signature | Jehlan nun | Date Considered | 8/18/2006 |
| | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.

| | | | | | | MODIFIED PTO/SB/08 A & B (06-03) | |
|--------------------------------------|------------------------------------|---------------|--------|---------------|------------------------|----------------------------------|--|
| C. L. Charles Comp. 1440 A. R. DOTTO | | | | | Complete if Known | | |
| | Substitute for Form 1449 A & B/PTO | | | | | 10/766,005 | |
| SUBSTITUT | E INFORMA | ATION D | ISØ | COSTRE | Confirmation Number | 2005 | |
| | STATEMENT BY APPLICANT | | | | | January 29, 2004 | |
| | | | | _ | First Named Inventor | Shinji TANAKA | |
| (us | e as many sheel | is as necessa | ع (برہ | Eb 5 5 1002 R | Art Unit | 2115 2179 | |
| , | • | | 13 | į (E) | Examiner Name | Thomas C. LEE & ofform were | |
| Sheet | 1 | of | 16 | 7 | Attorney Docket Number | Q79562 | |
| | | | | THAU | | | |
| | | | U.S | S. PATENT DO | OCUMENTS | | |

| | U.S. PATENT DOCUMENTS | | | | | | | |
|-----------|--------------------------|----------|-----------------------------------|------------------|---|--|--|--|
| Examiner | C'A- | Document | Number | Publication Date | | | | |
| Initials* | Cite No. ¹ | Number | Kind Code ² (if known) | MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | | |
| | | US | | | | | | |
| | | US | | | | | | |
| | | US | | | | | | |
| | | US | A | | | | | |
| | | US | | | | | | |
| , | | US | | | | | | |
| | | US | A | | | | | |
| | | US | | | | | | |
| | | US | | | | | | |

| | | _ | F | OREIGN PA | TENT DOCUM | ENTS | |
|-----------|--------------------------|------------------------------|---------------------|-----------------------------------|------------------|-----------------------------|--------------------------|
| Examiner | Cite No. ¹ | Foreign Patent Document | | | Publication Date | Name of Patentee or | Translation ⁶ |
| Initials* | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | |
| イン | | JP | 5-324236 | A | 12-07-1993 | Richoh Co. Ltd. | W/English Abstract |
| | | | | | | | |
| | | <u> </u> | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | + | | | |
| | | | | | | · | |

| | NON PATENT LITERATURE DOCUMENTS | | | | | | |
|-----------------------|---------------------------------|--|--------------------------|--|--|--|--|
| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation ⁶ | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | <u> </u> | | | | |

| Examiner Signature | Molar ? | ung | Date Considered | 8/18/1 | Jou |
|--------------------|---------|-----|-----------------|--------|-----|
| | | | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.

| | MAY 1 7 2000 & |
|------------------------------------|--|
| Substitute for Form 1449 A & B/PTO | A STATE OF THE STA |
| INFORMATIO | N DISCESSURE |
| STATEMENT I | BY APPLICANT |
| (use as many she | eets as necessary) |

of

Sheet

| Complete if Known | | | | | |
|------------------------|---------------------------|--|--|--|--|
| Application Number | 10/766,005 | | | | |
| Confirmation Number | 2005 | | | | |
| Filing Date | January 29, 2004 | | | | |
| First Named Inventor | Shinji TANAKA | | | | |
| Art Unit | 2115 2179 | | | | |
| Examiner Name | Thomas C. LEELORDAY NUNCZ | | | | |
| Attorney Docket Number | Q79562 | | | | |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|------|----------|-----------------------------------|--------------------------------|---|--|--|
| Examiner | Cite | Document | | | | | |
| Initials* | No.1 | Number | Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |
| | | US | | | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | |
|-----------|--------------------------|------------------------------|---------------------|-----------------------------------|------------------|-----------------------------|--------------------------|--|--|
| Examiner | Cite No. ¹ | Foreign Patent Document | | | Publication Date | Name of Patentee or | | | |
| Initials* | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Translation ⁶ | | |
| 70 | • | JP | 5-75628 | A | 03-26-1993 | FUJI XEROX CO LTD | Yes | | |
| | | | | | | | | | |
| | | - | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | + | | | | | |
| | | | | | | | | | |

| NON PATENT LITERATURE DOCUMENTS | | | | | | |
|---------------------------------|--------------|--|-------------|--|--|--|
| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation | | | |
| · | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | <u> </u> | | | |

| | <u> </u> | | / | |
|--------------------|-----------|-----------------|-----------|--|
| Examiner Signature | John hung | Date Considered | 8/18/2016 | |
| | , | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.